**TEST REPORT N°: STM-09MA164ETHP**

# TEST REPORT

| | | | |
|---|---|---|---|
| To: | **STORM ELECTRONICS CO. LTD.** | To: | - |
| Attn: | CHERRY LAW | Attn: | - |
| Address: | 22/F., COM WEB PLAZA,<br>12 CHEUNG YUE ST.,<br>CHEUNG SHA WAN, KOWLOON, HK | Address: | - |
| Fax: | 27448440 | Fax: | - |
| E-mail: | cherry@storm.com.hk | E-mail: | - |
| Offer No.: | STM-09MA16-01ETHP-A0 | | |
| | | | |
| Factory name: | ZHUHAI YUEHUA ELECTRONIC CO.,LTD. | | |
| Location: | 13, NO.4, PING DONG RD., NANPING TECHNOLOGY DISTRICT, ZHUHAI, CHINA 519060 | | |
| Product: | **PS 2 WIRELESS DONGLE**<br>**MODEL: KT2C-0201** | | |


| | |
|---|---|
| Sample No: | HK090313/009 |
| Test date: | March 25, 2009<br>to<br>March 28, 2009 |
| Test Requested: | FCC Part 15 - 2008 |
| Test Method: | ANSI C63.4 - 2003 |
| FCC ID: | VU5P2CO-045-01 |

**The results given in this report are related to the tested specimen of the described electrical apparatus.**

**CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.**

Authorized Signature:

| | |
|---|---|
| Reviewed by: Eric Wong | Approved by: Steven Tsang |
| Date: April 28, 2009 | Date: April 28, 2009 |

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## TEST REPORT N°: STM-09MA164ETHP

## Location of the test site

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

**BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE**

No. 2106-2107, 21/F., Westin Centre,
26 Hung To Road,
Kwun Tong, Kowloon,
Hong Kong

## List of measuring equipment

### Radiated Emission

| EQUIPMENT | MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATION DUE |
|---|---|---|---|---|
| EMI TEST RECEIVER | R&S | ESCI | 100379 | 18-AUG-2009 |
| HF LOOP ANTENNA | SCHAFFNER | HLA 6120 | 21728 | 14-NOV-2009 |
| BILOG ANTENNA | SCHAFFNER | CBL6112D | 25229 | 31-JAN-2010 |
| OPEN AREA TEST SITE | BVCPS | N/A | N/A | 05-JULY-2009 |
| ANECHOIC CHAMBER | ALBATROSS | M-CDC | 80374004499B | 09-JULY-2009 |
| HORN ANTENNA | SCHWARZBECK | BBHA9120D | 9120D-692 | 29-JULY-2009 |
| PREAMPLIFIER | SCHWARZBECK | BBV9718 | 9718-152 | 22-JULY-2009 |
| COAXIAL CABLE | SUHNER | N/A | N/A | 23-JULY-2009 |
| SPECTRUM ANALYZER | ADVANTEST | R3127 | 111000909 | 02-DEC-2009 |

### Conducted Emission

| EQUIPMENT | MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATION DUE |
|---|---|---|---|---|
| EMI TEST RECEIVER | R&S | ESCS30 | 830986/030 | 18-SEP-2009 |
| LISN | R&S | ENV216 | 100024 | 25-MAR-2009 |

**Remarks:-**
N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result

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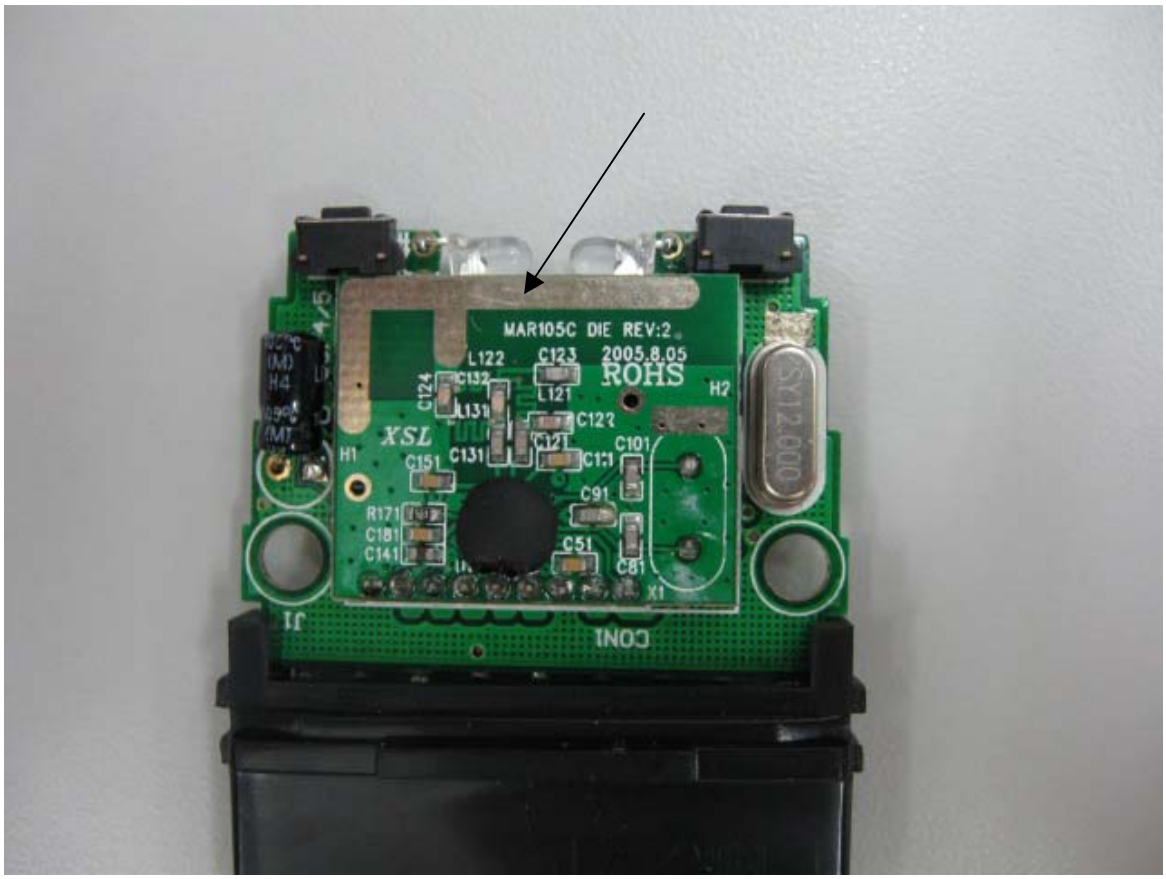
## TEST REPORT N°: STM-09MA164ETHP

**Equipment Under Test [EUT]**
**Description of Sample:**
Model Name: PS 2 WIRELESS DONGLE
Model Number: KT2C-0201
Rating: Power supply by PS2

**Description of EUT Operation:**
The Equipment Under Test (EUT) is a STORM ELECTRONICS CO. LTD.of Remote Control Transmitter. The transmitter is 1 buttons transmitter (For reset to search mode) and operating at 2410.00-2469.20MHz. The EUT continues to transmit while EUT connected to PS2 (Search mode), Modulation by IC, and type is MSK modulation.

**Antenna Requirement (Section 15.203)**
The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirement of S15.203 are met. There are no deviations or exceptions to the specifications.

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## TEST REPORT N°: STM-09MA164ETHP

## Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.4

Test Date(s): 2009-03-28

Mode of Operation: Transmission continuously, connected to PS 2

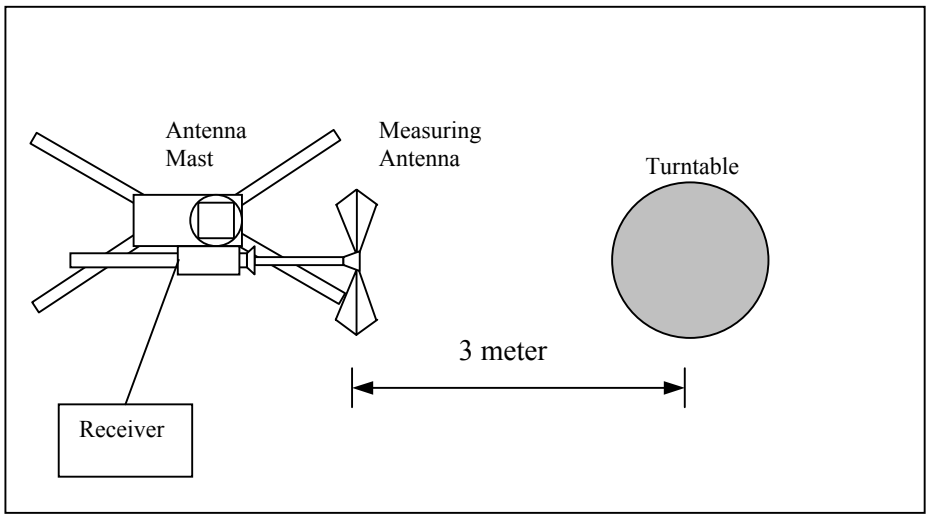
## Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

## Test Setup: Open Area Test Site

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**Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:**

| Frequency Range of Fundamental [MHz] | Field Strength of Fundamental Emission (Average) [mV/m] | Field Strength of Harmonics Emission (Average) [μV/m] |
|---|---|---|
| 2400 – 2483.5 | 50 | 500 |

## Measurement Data : Lowest, Middle and highest Channel

## Test Result of (Transmission continuously, connected to PS 2): PASS

## Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) and degree | EUT Orientation | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 2410.00 | H | Front side | 32.0 | 70.3 | 94.0 | -23.7 |
| 2440.00 | H | Front side | 32.0 | 71.3 | 94.0 | -22.7 |
| 2469.20 | H | Front side | 32.0 | 74.2 | 94.0 | -19.8 |

Note: EUT Orientation is shown as Set up photo.

Field Strength includes Antenna Factor, Cable Loss and Preamplifier gain

Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT N°: STM-09MA164ETHP

## Radiated Emissions (Spurious Emission)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.4

Test Date(s): 2009-03-28

Mode of Operation: Transmission continuously, connected to PS 2

## Measurement Data: Lowest, Middle and highest Channel

## Test Result of (Transmission continuously, connected to PS 2): PASS

## Detection mode: Peak

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2390.00 | H | 32.0 | 34.5 | 74.0 | -39.5 |
| 4820.00 | H | 38.3 | 47.0 | 74.0 | -27.0 |
| 7230.00 | H | 45.3 | 52.0 | 74.0 | -22.0 |
| 9640.00 | H | 49.0 | 52.3 | 74.0 | -21.7 |
| 12050.00 | H | 51.8 | 57.0 | 74.0 | -17.0 |
| 14460.00 | V | 57.0 | 61.0 | 74.0 | -13.0 |
| 16870.00 | V | 57.0 | 63.4 | 74.0 | -10.6 |
| 19280.00 | V | 57.4 | 64.3 | 74.0 | -9.7 |
| 21690.00 | V | 58.2 | 65.5 | 74.0 | -8.5 |
| 24100.00 | V | 58.8 | 66.3 | 74.0 | -7.7 |
| 4880.00 | V | 38.4 | 46.9 | 74.0 | -27.1 |
| 7320.00 | H | 45.3 | 50.9 | 74.0 | -23.1 |
| 9760.00 | V | 49.4 | 54.7 | 74.0 | -19.3 |
| 12200.00 | V | 51.9 | 57.6 | 74.0 | -16.4 |
| 14640.00 | H | 56.9 | 61.1 | 74.0 | -12.9 |
| 17080.00 | V | 57.5 | 64.0 | 74.0 | -10.0 |
| 19520.00 | V | 57.9 | 64.4 | 74.0 | -9.6 |
| 21960.00 | V | 58.3 | 65.1 | 74.0 | -8.9 |
| 24440.00 | V | 58.9 | 66.5 | 74.0 | -7.5 |

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| | | | | | |
|---|---|---|---|---|---|
| 2483.50 | H | 32.1 | 35.2 | 74.0 | -38.8 |
| 4938.40 | H | 38.5 | 45.4 | 74.0 | -28.6 |
| 7407.60 | H | 45.5 | 51.8 | 74.0 | -22.2 |
| 9876.80 | V | 49.6 | 54.7 | 74.0 | -19.3 |
| 12346.00 | H | 51.6 | 57.2 | 74.0 | -16.8 |
| 14815.20 | H | 56.6 | 63.9 | 74.0 | -10.1 |
| 17284.40 | H | 58.4 | 64.9 | 74.0 | -9.1 |
| 19753.60 | V | 58.5 | 65.3 | 74.0 | -8.7 |
| 22222.80 | V | 59.2 | 66.4 | 74.0 | -7.6 |
| 24690.00 | V | 59.6 | 67.7 | 74.0 | -6.3 |

## Measurement Data

## Test Result of (Transmission continuously, connected to PS 2): PASS

## Detection mode: Average

| Frequency (MHz) | Polarity (H/V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|
| 2390.00 | H | 32.0 | 19.3 | 54.0 | -34.7 |
| 4820.00 | H | 38.3 | 31.8 | 54.0 | -22.2 |
| 7230.00 | H | 45.3 | 36.8 | 54.0 | -17.2 |
| 9640.00 | H | 49.0 | 37.1 | 54.0 | -16.9 |
| 12050.00 | H | 51.8 | 41.8 | 54.0 | -12.2 |
| 14460.00 | V | 57.0 | 45.8 | 54.0 | -8.2 |
| 16870.00 | V | 57.0 | 48.2 | 54.0 | -5.8 |
| 19280.00 | V | 57.4 | 49.1 | 54.0 | -4.9 |
| 21690.00 | V | 58.2 | 50.3 | 54.0 | -3.7 |
| 24100.00 | V | 58.8 | 51.1 | 54.0 | -2.9 |

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| | | | | | |
|---|---|---|---|---|---|
| 4880.00 | V | 38.4 | 31.7 | 54.0 | -22.3 |
| 7320.00 | H | 45.3 | 35.7 | 54.0 | -18.3 |
| 9760.00 | V | 49.4 | 39.5 | 54.0 | -14.5 |
| 12200.00 | V | 51.9 | 42.4 | 54.0 | -11.6 |
| 14640.00 | H | 56.9 | 45.9 | 54.0 | -8.1 |
| 17080.00 | V | 57.5 | 48.8 | 54.0 | -5.2 |
| 19520.00 | V | 57.9 | 49.2 | 54.0 | -4.8 |
| 21960.00 | V | 58.3 | 49.9 | 54.0 | -4.1 |
| 24440.00 | V | 58.9 | 51.3 | 54.0 | -2.7 |
| 2483.50 | H | 32.1 | 20.0 | 54.0 | -34.0 |
| 4938.40 | H | 38.5 | 30.2 | 54.0 | -23.8 |
| 7407.60 | H | 45.5 | 36.6 | 54.0 | -17.4 |
| 9876.80 | V | 49.6 | 39.5 | 54.0 | -14.5 |
| 12346.00 | H | 51.6 | 42.0 | 54.0 | -12.0 |
| 14815.20 | H | 56.6 | 48.7 | 54.0 | -5.3 |
| 17284.40 | H | 58.4 | 49.7 | 54.0 | -4.3 |
| 19753.60 | V | 58.5 | 50.1 | 54.0 | -3.9 |
| 22222.80 | V | 59.2 | 51.2 | 54.0 | -2.8 |
| 24690.00 | V | 59.6 | 52.5 | 54.0 | -1.5 |

# For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.
**Duty Cycle Correction = 20Log(0.174) =-15.2dB

Note: Field Strength includes Antenna Factor, Cable Loss and Preamplifier gain

Receiver setting: RBW = 1MHz
VBW = 1MHz

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## TEST REPORT N°: STM-09MA164ETHP

## Radiated Emissions (30MHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method: ANSI C63.4

Test Date(s): 2009-03-27

Mode of Operation: Search mode with PS2

**Limits for Radiated Emissions [FCC 47 CFR 15.209]:**

| Frequency Range [MHz] | Quasi-Peak Limits [μV/m] |
|---|---|
| 1.705-30 | 300 |
| 30-88 | 100 |
| 88-216 | 150 |
| 216-960 | 200 |
| Above960 | 500 |

## Measurement Data

### Test Result of (Search mode with PS2): PASS

## Detection mode: Quasi-Peak

| Frequency (MHz) | Polarity (H/V) | Field Strength at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|---|---|---|---|---|
| 162.00 | H | 22.7 | 43.5 | -20.8 |
| 223.60 | V | 19.4 | 46.0 | -26.6 |
| 237.08 | H | 24.6 | 46.0 | -21.4 |
| 254.60 | H | 20.2 | 46.0 | -25.8 |
| 304.84 | H | 26.2 | 46.0 | -19.8 |
| 338.68 | H | 24.4 | 46.0 | -21.6 |

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz
VBW = 120KHz

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## TEST REPORT N°: STM-09MA164ETHP

## Conducted Emissions (150kHz to 30MHz)

Test Requirement: FCC Part 15 Section 15.207
Test Method: ANSI C63.4
Test Limits: Class B

Test Date(s): 2009-03-25

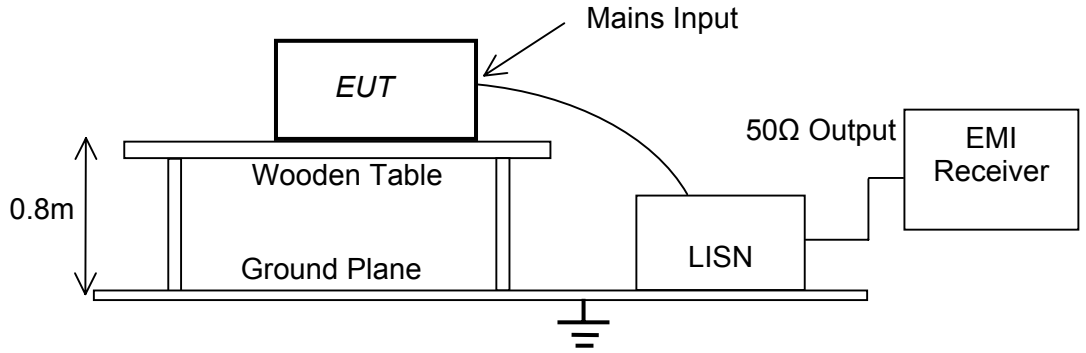
Mode of Operation: On mode, connected to PS2 (Transmitting and Receiving)

## Test Procedure:

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

Initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

## Test Setup:

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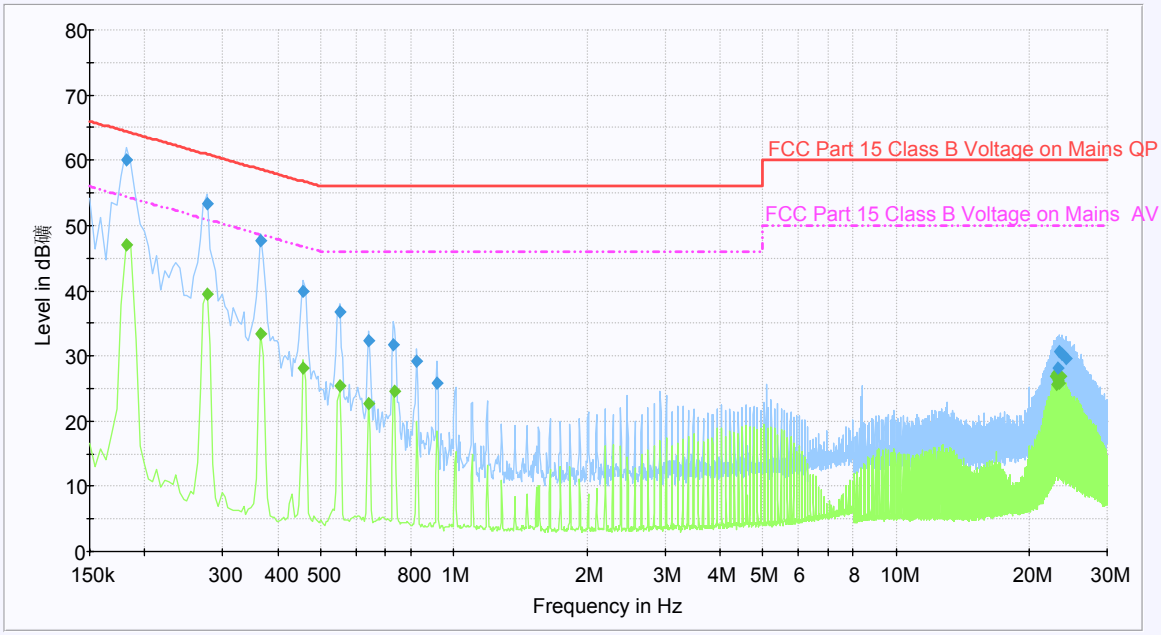
## TEST REPORT N°: STM-09MA164ETHP

**Measurement Data : Live**

**Test Result of (On mode, connected to PS2): PASS**

## Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.




| Frequency (MHz) | QuasiPeak (dBµV) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|
| 0.181500 | 60.0 | L1 | 9.9 | 4.4 | 64.4 |
| 0.276000 | 53.4 | L1 | 9.9 | 7.5 | 60.9 |
| 0.366000 | 47.6 | L1 | 9.9 | 11.0 | 58.6 |
| 0.550500 | 36.7 | L1 | 10.0 | 19.3 | 56.0 |
| 0.825000 | 29.2 | L1 | 10.0 | 26.8 | 56.0 |
| 24.193500 | 29.6 | L1 | 10.1 | 30.4 | 60.0 |
| **Frequency (MHz)** | **Average (dBµV)** | **Line** | **Corr. (dB)** | **Margin (dB)** | **Limit (dBµV)** |
| 0.181500 | 47.1 | L1 | 9.9 | 7.3 | 54.4 |
| 0.276000 | 39.6 | L1 | 9.9 | 11.3 | 50.9 |
| 0.366000 | 33.5 | L1 | 9.9 | 15.1 | 48.6 |
| 0.550500 | 25.4 | L1 | 10.0 | 20.6 | 46.0 |
| 0.640500 | 22.6 | L1 | 9.9 | 23.4 | 46.0 |
| 0.735000 | 24.5 | L1 | 9.9 | 21.5 | 46.0 |
| 22.821000 | 26.8 | L1 | 10.0 | 23.2 | 50.0 |
| 23.001000 | 25.6 | L1 | 10.0 | 24.4 | 50.0 |

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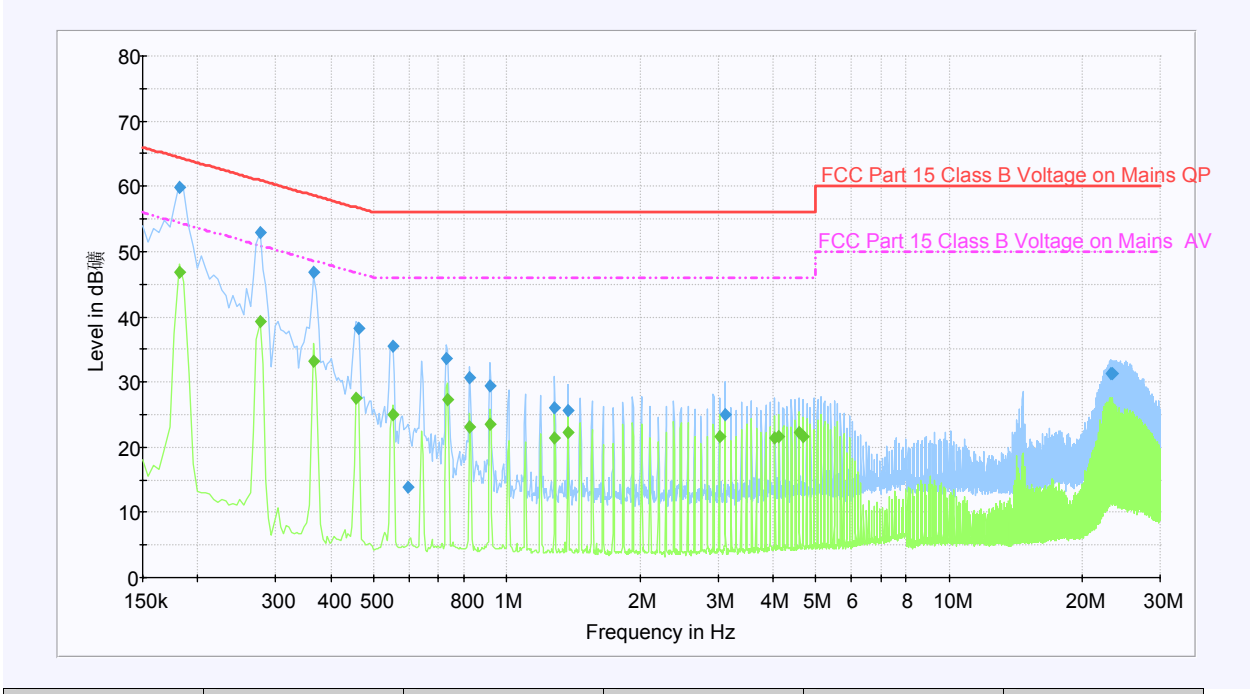
## TEST REPORT N°: STM-09MA164ETHP

**Measurement Data : Neutral**

**Test Result of (On mode, connected to PS2): PASS**

## Results and limit lines for Conducted Emission:

Limits for Conducted Emission Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.




| Frequency (MHz) | QuasiPeak (dBµV) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|
| 0.276000 | 52.9 | N | 9.9 | 8.0 | 60.9 |
| 0.460500 | 38.2 | N | 9.9 | 18.5 | 56.7 |
| 0.595500 | 13.8 | N | 10.0 | 42.2 | 56.0 |
| 1.284000 | 26.0 | N | 9.9 | 30.0 | 56.0 |
| 1.374000 | 25.6 | N | 9.9 | 30.4 | 56.0 |
| 3.115500 | 25.1 | N | 10.0 | 30.9 | 56.0 |
| 23.374500 | 31.3 | N | 10.1 | 28.7 | 60.0 |
| **Frequency (MHz)** | **Average (dBµV)** | **Line** | **Corr. (dB)** | **Margin (dB)** | **Limit (dBµV)** |
| 0.276000 | 39.2 | N | 9.9 | 11.7 | 50.9 |
| 0.456000 | 27.4 | N | 9.9 | 19.4 | 46.8 |
| 0.550500 | 24.9 | N | 10.0 | 21.1 | 46.0 |
| 0.825000 | 23.2 | N | 10.0 | 22.8 | 46.0 |
| 1.284000 | 21.3 | N | 9.9 | 24.7 | 46.0 |
| 3.025500 | 21.5 | N | 10.0 | 24.5 | 46.0 |
| 4.033500 | 21.4 | N | 10.0 | 24.6 | 46.0 |
| 4.672500 | 21.7 | N | 10.0 | 24.3 | 46.0 |

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## TEST REPORT N°: STM-09MA164ETHP

Frequency range of Fundamental Emission

| | |
|---|---|
| Test Requirement: | FCC 47 CFR 15.249 |
| Test Method: | ANSI C63.4:2003 (Section 13.1.7) |
| Test Date: | 2009-03-28 |
| Mode of Operation: | Transmission continuously |

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

**Limits for Frequency range of Fundamental Emission:**

| Frequency [MHz] | FCC Limits [MHz] |
|---|---|
| 2410.00-2469.20 | 2400 – 2483.5 |

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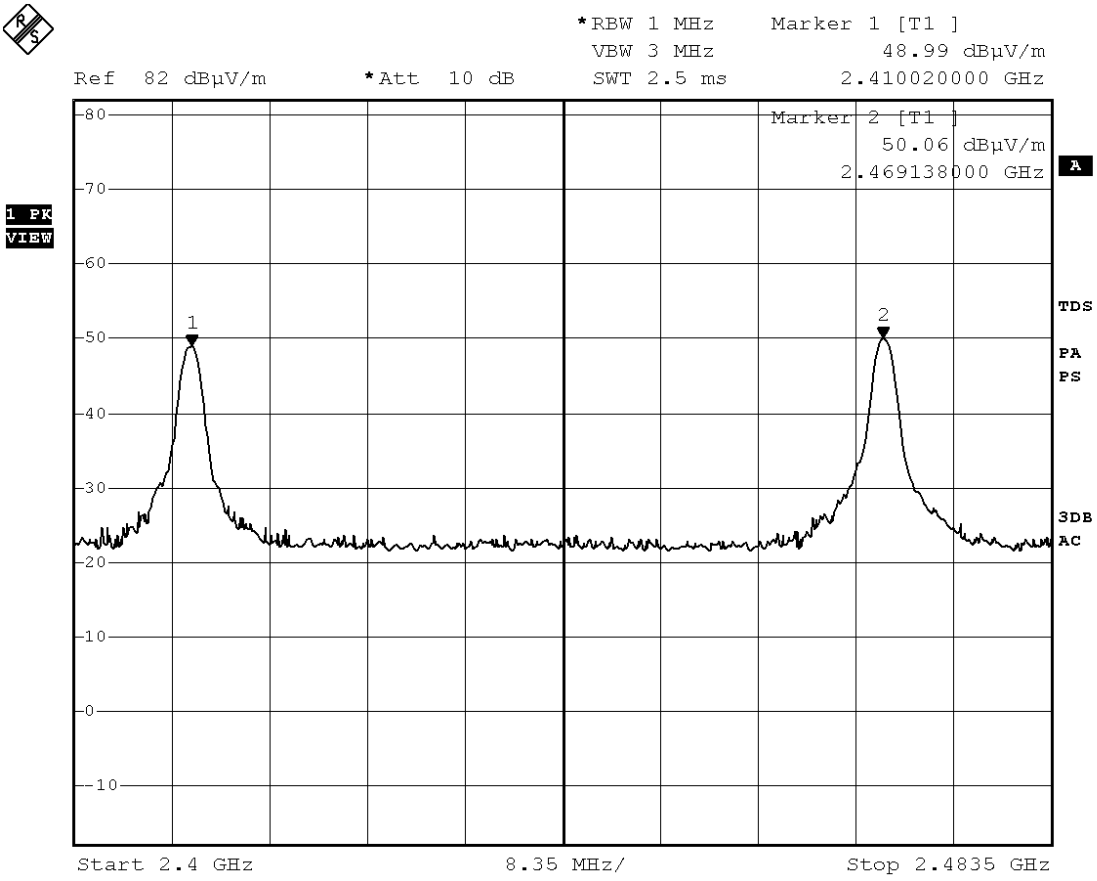
## TEST REPORT N°: STM-09MA164ETHP

## Measurement Data :

### Test Result of Frequency Range of Fundamental Emission: PASS




Date: 5.MAY.2009 09:53:03

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## TEST REPORT N°: STM-09MA164ETHP

### Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (100msec) never exceeds a series of 29 (0.6msec) pulses. Assuming any combination of short or long pulses may be obtained due to encoding the worst case transmit duty cycle would be considered (29*0.6) per 100msec=17.4% duty cycle. Figure A through C show the characteristics of the pulse train for one of these functions.

Remarks:

Duty Cycle Correction = 20Log(0.174) =-15.2dB

The following figures [Figure A to Figure C] show the characteristics of the pulse train for one of these functions.

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Figure A [Pulse Train of the lowest hopping channel]

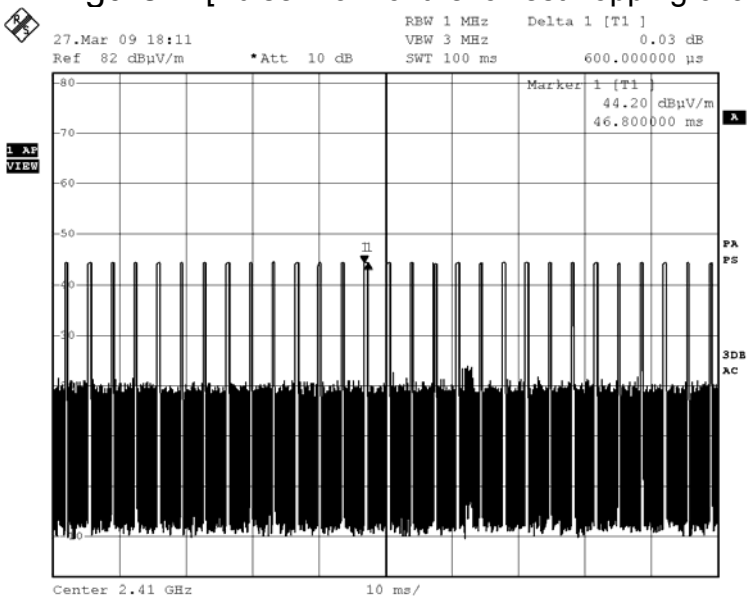


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Figure B [Pulse Train of the middle hopping channel]

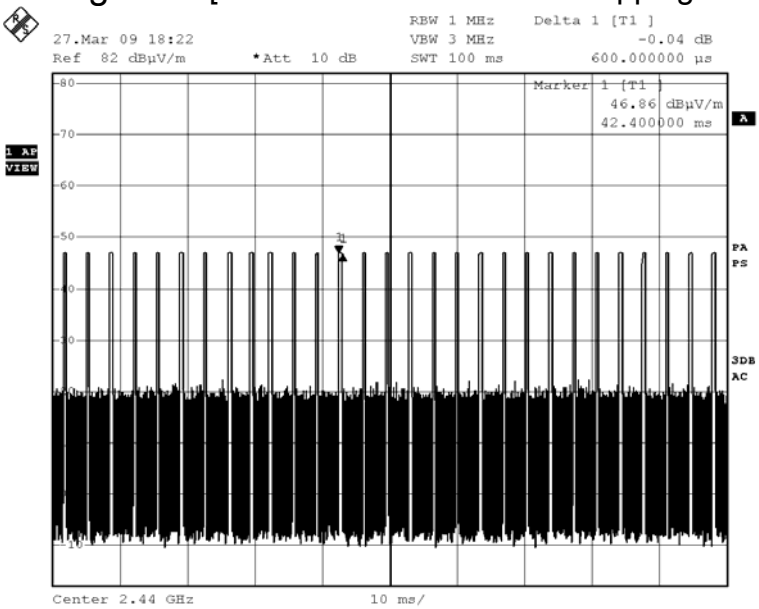


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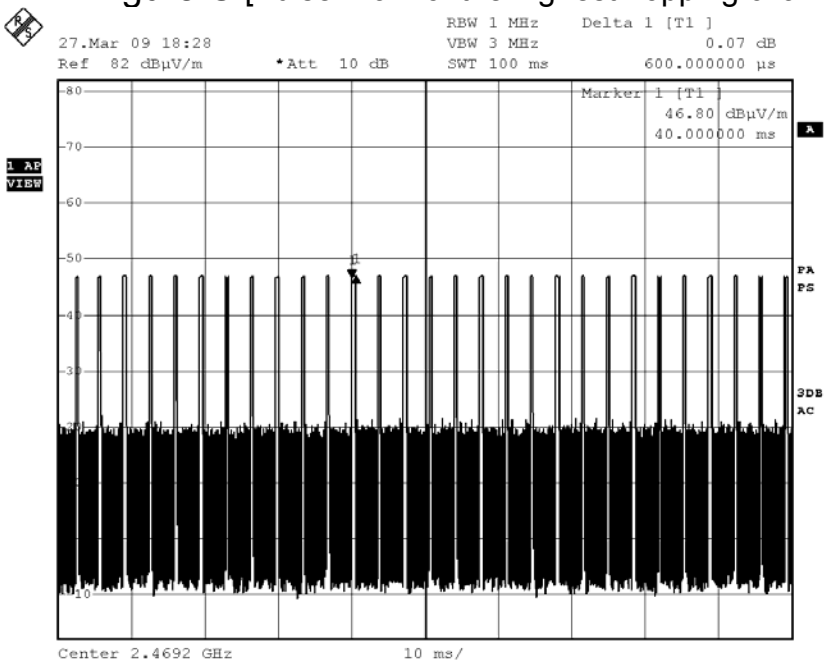
Figure C [Pulse Train of the highest hopping channel]




Date: 27.MAR.2009 18:28:08

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## TEST REPORT N°: STM-09MA164ETHP

### Photographs of EUT

**Front View of the product**


**Rear View of the product**

**Inner Circuit Top View**

**Inner Circuit Bottom View**

**Connected with PS2**

**Button of the product**


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## Measurement of Radiated Emission Test Set Up

## Measurement of Connected Emission Test Set Up

******* End of Report *******

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